



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Initial application of

**Jarmo Ilmari Maula, Hannu Leskinen,
Teemu Lang, Pekka Kuosmanen, Kari
Härkönen, and Bradley J. Aitchison**

Confirmation No. 9277

Application No. 10/609,339

Filed: June 26, 2003

For: **DIAPHRAGM VALVE WITH
RELIABILITY ENHANCEMENTS
FOR ATOMIC LAYER DEPOSITION**

Group Art Unit:

Examiner:

Date: November 17, 2003

INFORMATION DISCLOSURE STATEMENT

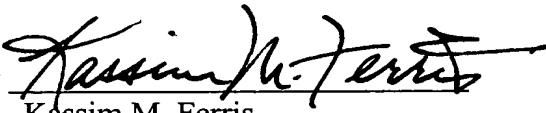
TO THE COMMISSIONER FOR PATENTS:

1. Pursuant to the duty of disclosure, documents listed on the accompanying Form PTO-1449 (or equivalent) are presented for the Examiner's consideration.
 - ☒ Copies of listed documents are enclosed. (37 CFR § 1.98(a))
 - ☐ Copies of listed U.S. patent documents are omitted because this application was filed after June 30, 2003 and is, thus, subject to image file wrapper processing. Copies of listed foreign patent documents and non-patent literature are enclosed.
 - ☐ Copies of the documents listed on sheet(s) _____ of Form PTO-1449 (or equivalent) are omitted because (1) they are already of record in U.S. Patent Application No. _____, filed _____, on which this application relies for an earlier filing date under 35 U.S.C. § 120; and (2) any information disclosure statement filed in the prosecution of Application No. _____, complies with 37 CFR §§ 1.98(a) through (c). (37 C.F.R. § 1.98(d))
2. ☐ The Examiner's attention is directed to the enclosed copy of copending U.S. Patent Application No. _____, filed _____, for _____, which is cited in this application.
3. This information disclosure statement is being submitted (check box a., b., or c.):
 - a. ☒ Within three months of the filing date of a national application or entry of the national stage in an international application; or before the mailing of a first Office action on the merits; or before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114. (No statement under 37 CFR 1.97(e) is required.); or

- b. ☐ After the period set forth in paragraph 3a, but before the mailing date of either a final action, a notice of allowance, or an action that otherwise closes prosecution in the application. (Check box i. or ii.)
- i. ☐ A \$180.00 information disclosure statement submission fee set forth in 37 CFR 1.17(p) is enclosed, or
- ii. ☐ A statement specified by 37 CFR 1.97(e) is set forth below; or
- c. ☐ After the mailing date of a final action or notice of allowance and on or before payment of the issue fee. A statement specified by 37 CFR 1.97(e) is set forth below. Enclosed is a \$180.00 information disclosure statement processing fee set forth in 37 CFR 1.17(p).
4. If a statement specified by 37 CFR 1.97(e) is required, the attorney or agent signing below hereby states that:
- ☐ each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement; or
- ☐ no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement.
5. ☐ A concise explanation of the relevance of each document not in the English language and/or selected documents in the English language is set forth below.

Respectfully submitted,

Planar Systems, Inc.

By 
Kassim M. Ferris
Registration No. 39,974

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Attorney Docket No. 11429/13:3

Complete if Known

Substitute for form

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1
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Application Number	10/609,339
Filing Date	June 26, 2003
First Named Inventor	Jarmo Ilmari Maula
Art Unit	
Examiner Name	
Attorney Docket Number	11429/13:3

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ^{2 (if known)}			
	1	US- 3,606,241	09/20/1971	Bornholdt	
	2	US- 4,437,488	03/20/1984	Taggart et al.	
	3	US- 4,582,294	04/15/1986	Fargo	
	4	US- 4,903,938	02/27/1990	Nishizawa et al.	
	5	US- 4,944,487	07/31/1990	Holtermann	
	6	US- 5,188,337	02/23/1993	Mertens et al.	
	7	US- 5,282,604	02/01/1994	Wade	
	8	US- 5,326,078	07/05/1994	Kimura	
	9	US- 5,375,738	12/27/1994	Walsh et al.	
	10	US- 5,413,311	05/09/1995	Arstein et al.	
	11	US- 5,624,102	04/29/1997	Nishimura et al.	
	12	US- 5,669,596	09/23/1997	Yoshikawa et al.	
	13	US- 5,743,513	04/28/1998	Yoshikawa et al.	
	14	US- 5,755,428	05/26/1998	Ollivier	
	15	US- 5,820,105	10/13/1998	Yamaji et al.	
	16	US- 5,865,421	02/02/1999	Ono	
	17	US- 5,881,997	03/16/1999	Ogawa et al.	
	18	US- 6,007,046	12/28/1999	Rothermel	

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner
Signature

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	2
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Application Number	10/609,339
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Filing Date	June 26, 2003
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First Named Inventor	Jarmo Ilmari Maula
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Art Unit

Examiner Name

Attorney Docket Number	11429/13:3
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U. S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

[illegible]Examiner
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	3	of	3
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Complete if Known

Application Number	10/609,339
Filing Date	June 26, 2003
First Named Inventor	Jarmo Ilmari Maula
Art Unit	
Examiner Name	
Attorney Docket Number	11429/13:3

NON PATENT LITERATURE DOCUMENTS

[illegible]

Examiner Signature		Date Considered	
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This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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